



Attorney Docket No.: 462-96-004

CERTIFICATE OF MAILING

I hereby certify that this paper is being deposited with the United States Postal Service with sufficient postage as first Class mail in an envelope addressed to:

Assistant Commissioner for Patents Washington, D.C. 20231, on this date.

Signature of Depositor
Date: 7131/7

15

40

10

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

	In re application of:	Dillard, et al.)			
20	Serial No.:	08/861,989)	Supplemental Declara and David Goddard	tion of Kelly	Dillard
	Filed:	05/22/97) .			
25	Title:	Copy Protection For Updates Transmitted Via Internet)))		AUG -8 2000 TC 2700 MAIL ROOM	RECEIVE
	Group No.:	2764)		-8 2	EIVE
30	Examiner:	Retta, Y.)		2000 IL RO	Ö
35	Assistant Commissione Washington, D.C. 2023			·	M	
	Sir,					

I, Kelly Dillard, of Olathe, Kansas; and I, David Goddard, of Overland Park, Kansas, declare:

- 4. Exhibit A of this Supplemental Declaration contains a print out of the first and last page of a source code file for the computer routine "CRYPTDB."
- 5. Exhibit B of this Supplemental Declaration contains the print out of the first and last page of a source code file for the computer routine "UNCRPTDB."
- 6. Exhibit C of this Supplemental Declaration is a windows directory listing for the directory containing the files identified in paragraphs 4 and 5 above and shows that the files CRYPTD and UNCRPTDB were last modified on
 - 7. The source code files identified in paragraphs 4 and 5 above are used to implement one preferred embodiment of the invention.

Attorney Docket No.: 462-96-004

8. In the we actually reduced the invention to practice by conducting a proof of concept demonstration of the invention using the code files identified in paragraphs 4 and 5 above.

The undersigned declares further that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature:	Telly Dellant		
Post Office Address:	20120 W. 121 st Lane		
	Olathe, KS 66061		
.	7/-//		
Date:	7/26/00		
Signature: Post Office Address: Date:	9608 West 104th Terrace Overland Park, K\$ 66212		
	Post Office Address: Date: Signature: Post Office Address:		

25

```
/*+module definition*************************
*****
       · ...
** Copyright (c) AlliedSignal Inc.
** Name
             : CRYPTDB
** Description : This module is a very crude attempt to encrypt the dat
abase
               file used by KLX100.EXE. The encryption has a cumulat
ive
               randomizing effect on the output data, but is of cours
е
               not bullet-proof from super-sleuth crypt experts.
** Global Procedures:
   Name
                             Туре
                                     Abstract
   ____
                                     -----
                              ----
** Header for Code Management Software
******************
#include <stdio.h>
#include <stdlib.h>
#include <io.h>
#include <stdarg.h>
#define FALSE 0;
#define TRUE 1;
#define MIDX 135
                      0x80
                                    /* master index location for KL
X 135 */
#define MIDX 90
                      0x42
                                    /* master index location for KL
N 90 */
#define MIDX RS 135
                      14
                                    /* 14 bytes per index entry */
#define MIDX RS 90
                                    /* 3 bytes per index entry for
90 */
#define TAG SIZE
                      162
                                    /* 162 total bytes tagged on en
d */
#define KLN90 TYPE 1
#define OTHER TYPE 2
typedef unsigned char BYTE;
/* KLN 90 database modified memory structure */
typedef struct
```

```
/* Compute table of CRC's */
   crc_32_{tab}[0] = 0x00000000L;
   for (i = 1; i < 256; i++)
      c = 0;
      for (k = i | 256; k != 1; k >>= 1)
         c = c \& 1 ? (c >> 1) ^e : c >> 1;
         if (k & 1)
            c ^= e;
      crc 32 tab[i] = c;
   }
}
----*/
/* compute a CRC for a given byte stream
                -----
/*----
unsigned long get_crc( void *buffer, register int length )
   register unsigned long crcval = 0xffffffffL;
   register BYTE *b = buffer;
   while (length--)
      crcval = crc_32_tab[((BYTE) crcval ^ (*b++)) & 0xff] ^ (crcval
>> 8);
   return ~crcval;
         _____
----*/
/* update a running CRC with a single byte
/*-----
void update crc( BYTE c, unsigned long *crc )
   *crc = crc_32_tab[((BYTE)*crc ^ c) & 0xff] ^ (*crc >> 8);
```

```
/*+module definition**************************
*****
** Copyright (c) AlliedSignal Inc.
** Name
             : UNCRYPT
** Description : This module is an "antidote" for a database file which
has
**
                been encrypted by CRYPTDB.EXE.
**
** Global Procedures:
** Name
                               Type
                                       Abstract
   _ _ _ _
                                       -----
** Header for Code Management Software
**
****-*/
#include <stdio.h>
#include <stdlib.h>
#include <io.h>
#define TAG_SIZE 162
typedef unsigned char BYTE;
void gen crc tab( void );
unsigned long get crc( void *buffer, register int length );
void update crc( BYTE c, unsigned long *crc );
unsigned long crc_32_tab[256];
                                      /* 32-bit CRC table */
void main( void )
    FILE *infp;
   FILE *outfp;
   unsigned long 1CRC32;
   long int i, llen;
   BYTE b, cInByte;
   char infname [80];
    char outfname[80];
                                               /* database key read fr
   long int
              db stamped key;
om file */
   do
```

```
for (i = 0; i < sizeof(p)/sizeof(int); i++)
      e \mid = 1L \ll (31 - p[i]);
   /* Compute table of CRC's */
   crc 32 tab[0] = 0x00000000L;
   for (i = 1; i < 256; i++)
   {
      c = 0;
      for (k = i \mid 256; k != 1; k >>= 1)
         c = c \& 1 ? (c >> 1) ^e : c >> 1;
         if (k & 1)
            c ^= e;
      crc_32_tab[i] = c;
   }
}
----*/
/* compute a CRC for a given byte stream
----*/
unsigned long get crc( void *buffer, register int length )
   register unsigned long crcval = 0xfffffffff;
   register BYTE *b = buffer;
   while (length--)
      crcval = crc_32_tab[((BYTE) crcval ^ (*b++)) & 0xff] ^ (crcval
>> 8);
   return ~crcval;
/*-----
----*/
/* update a running CRC with a single byte
/*-----
----*/
void update_crc( BYTE c, unsigned long *crc )
   *crc = crc 32 tab[((BYTE)*crc ^ c) & 0xff] ^ (*crc >> 8);
```

7/24/00 3:49 PM

C:\WINDOWS\TEMP\DILLARD.ZIP

Name	Modified	Size	Ratio	Packed	Path
Cryptdb.c	1:11 PM	14,581	68%	4,686	
Uncrypt.c	10:45 AM	5,451	62%	2,048	
2 file(s)		20.032	66%	6.734	

Page 1